

Semionotiformes

Semionotiformes is an order of primitive, ray-finned, primarily freshwater fish from the Triassic to the Cretaceous. The best-known genus is Semionotus of Europe and North America.^[1]

Classification

- Order †**Semionotiformes** Arambourg & Bertin 1958 sensu López-Arbarello 2012^{[2][3][4][5]}

- Genus ?†Orthurus Kner 1866
- Genus †Sangiorgioichthys Tintori & Lombardo 2007
- Genus †Luoxiongichthys Wen et al. 2011
- Genus †Aphanepygus Bassani 1879
- Genus †Placidichthys Brito 2000
- Family †Pleurolepididae Lütken 1871

- Genus †Pleurolepis Agassiz 1863 non Quenstedt 1852

- Family †Macrosemiidae Wagner 1860a corrig. Cope 1889 sensu Murray & Wilson 2009 [Macrosemii Wagner 1860a]

- Genus †Eusemius Vetter 1881
- Genus †Blenniomoeus Costa 1850 [Calignathus Costa 1853]
- Genus †Enchelyolepis Woodward 1918
- Genus †Palaeomacrosemius Ebert, Lane & Kolbl-Ebert 2016
- Genus †Voelklichthys Arratia & Schultze 2012
- Genus †Notagogus Agassiz 1833-1844 [Neonotagogus Bravi 1994]
- Genus †Agoultichthys Murray & Wilson 2009
- Genus †Histonotus Egerton 1854
- Genus †Propterus Agassiz 1833-1844 [Rhynchoncodes Costa 1850]
- Genus †Macrosemiocotzus González-Rodríguez, Applegate & Espinosa-Arrubarrena 2004
- Genus †Legnonotus Egerton 1853
- Genus †Macrosemius Agassiz 1833-1844

- Family †Semionotidae Woodward 1890 sensu López-Arbarello 2012

- Genus †Semionotus Agassiz 1832
- Genus †Sargodon Plieninger 1847
- Genus †Lepidotes Agassiz, 1832

Semionotiformes

Temporal range: Late Permian-Late Cretaceous



Scheenstia maxima from the Solnhofen Limestone, in South Germany

Scientific classification

Kingdom: Animalia

Phylum: Chordata

Class: Actinopterygii

Subclass: Neopterygii

Order: †Semionotiformes
Arambourg & Bertini 1958 sensu López-Arbarello 2012

Families

- Callipurbeckiidae
- Macrosemiidae
- Pleurolepididae
- Semionotidae

Synonyms

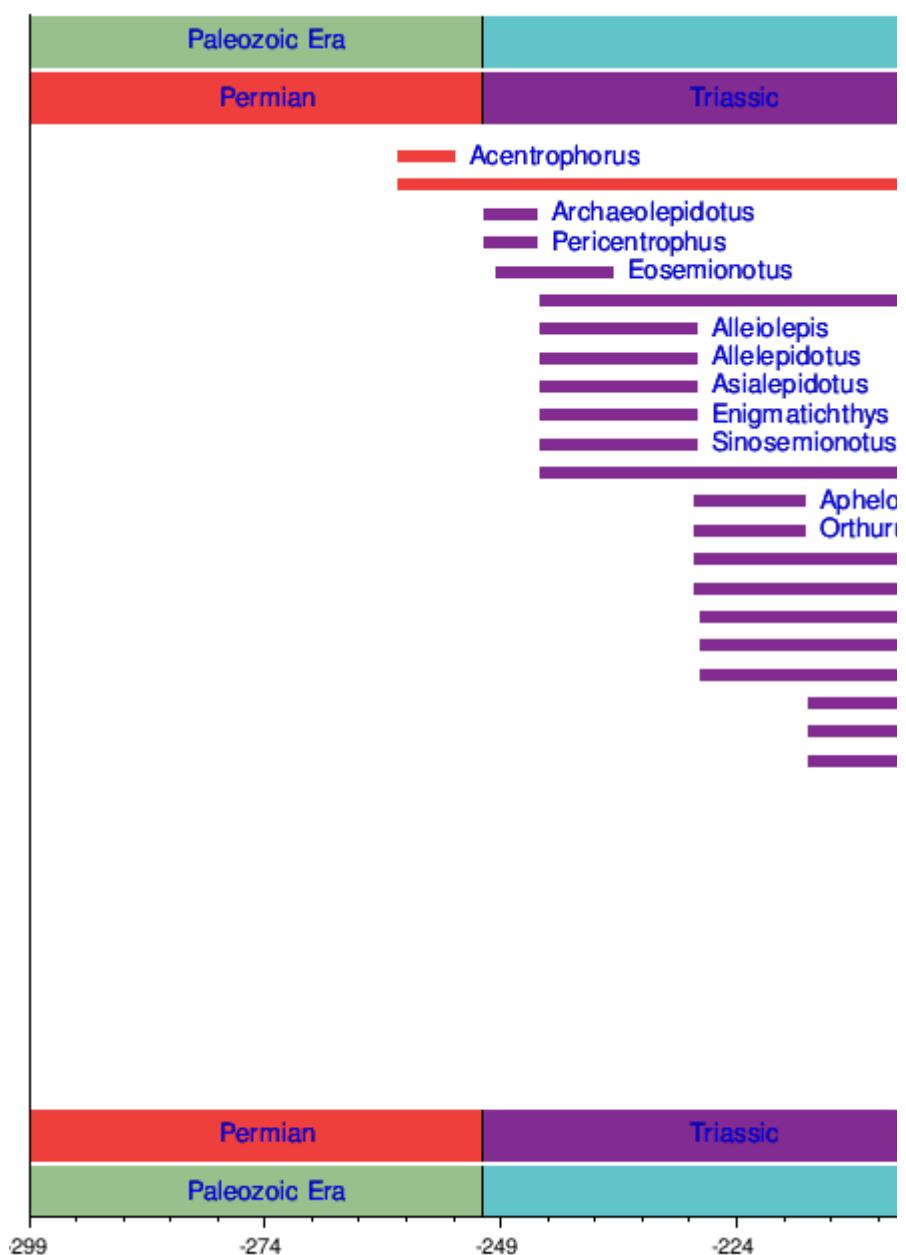
Macrosemiiformes Grande & Bemis 1998

- Genus †Scheenstia López-Arbarello & Sferco, 2011
- Family †Callipurbeckiidae López-Arbarello 2012 [Paralepidotidae Hadding 1919 ex Lund 1920]
 - Genus †Occitanichthys López-Arbarello & Wencker 2016
 - Genus †Semiolepis Lombardo & Tintori 2008
 - Genus †Paralepidotus Stolley 1919
 - Genus †Macrosemimimus Schröder, López-Arbarello & Ebert 2012
 - Genus †Tlayuamichin López-Arbarello & Alvarado-Ortega 2011
 - Genus †Callipurbeckia López-Arbarello 2012

Timeline of genera



Hadrodus priscus tooth, Menuha Formation (Upper Cretaceous), southern Israel



References

1. Sepkoski, Jack (2002). "A compendium of fossil marine animal genera" (<http://strata.ummp.lsa.umich.edu/jack/showgenera.php?taxon=611&rank=class>). *Bulletins of American Paleontology*. 363: 1–560. Retrieved 2011-05-17.
 2. Haaramo, Mikko (2007). "*Ginglymodi – gars and relatives*" (<http://www.helsinki.fi/~mhaaramo/metazoa/deuterostoma/chordata/actinopterygii/ginglymodi/ginglymodi.html#semionotiformes>). *Mikko's Phylogeny Archive*. Retrieved 30 December 2016.
 3. Nelson, Joseph S.; Grande, Terry C.; Wilson, Mark V. H. (2016). *Fishes of the World* (5th ed.). John Wiley & Sons. ISBN 9781118342336.
 4. van der Laan, Richard (2016). "*Family-group names of fossil fishes*" (https://www.researchgate.net/publication/303911230_Family-group_names_of_fossil_fishes).
 5. López-Arbarello, Adriana (2012). "*Phylogenetic Interrelationships of Ginglymodian Fishes (Actinopterygii: Neopterygii)*" (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3394768>). *PLoS ONE*. 7 (7): e39370. doi:10.1371/journal.pone.0039370 (<https://doi.org/10.1371%2Fjournal.pone.0039370>). PMC 3394768 (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3394768>). PMID 22808031 (<https://pubmed.ncbi.nlm.nih.gov/22808031>).
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